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(71) Applicant (for all designated States except US): ALT
SOLUTIONS, INC. [US/US]; Corporation Trust Center,
1209 Orange Street, Wilmington, DE 19801 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BONDAREV, Igor,
E. [RU/RU]; 25-1-123 Solidarnosty Pr., St. Petersburg,
193231 (RU). BERTRAM, John, S. [US/US]; 5577 Kala-
nianaʻole Highway, Honolulu, HI 96821 (US).

(74) Agent: FISHER, Stanley, P.; Reed Smith LLP, 3110
Fairview Park Drive, Suite 1400, Falls Church, VA 22042
(US).

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(54) Title: MODULATION OF LINE-1 REVERSE TRANSCRIPTASE

(57) Abstract: A reverse transcriptase encoded by L-1 (LINE-1) has been identified as a target molecule for treating or preventing cancers induced or mediated by this molecule. Method of treating or preventing such cancers in patients involves administration of a therapeutically effective amount of a composition having an inhibitor or antagonist of the reverse transcriptase in cells of the patients. The inhibitor or antagonist blocks lengthening of telomeres in telomerase negative cells. Methods and kits for detecting pathologically proliferating cells expressing L1RT are also disclosed.

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